

WHAT IS CLAIMED IS:

1. An imaging component comprising a vertically aligned nematic liquid crystal cell, a polarizer, and a compensation film containing a positive birefringent material oriented with its optic axis tilted in a plane perpendicular to the liquid crystal cell face.
2. A component according to claim 1, comprising a pair of polarizers disposed on opposite sides of the vertically aligned liquid crystal cell, the polarizers having polarization axes orthogonally crossed with respect to each other in a direction normal to the cell surface.
3. A component according to claim 1 wherein the compensation film is disposed between the liquid crystal cell and the polarizer.
4. A component according to claim 1 wherein the compensation film comprises a positive birefringent material disposed on a base film that has negative optical anisotropy with an axis along the normal of the substrate.
5. A component according to claim 1 wherein the compensation film comprises a first positive birefringent material disposed on a base film and a second positive birefringent material disposed on the said first positive birefringent material.
6. A component according to claim 5 wherein two positive birefringent material layers have different thickness.
7. A component according to claim 5 wherein tilt in the optic axis of at least one of positive birefringent material layers is uniform.
8. A component according to claim 5 wherein tilt in the optic axis of at least one of positive birefringent material layer varies.

9. A component according to claim 5 comprising an alignment layer between the first positive birefringent layer and the base film.
10. A component according to claim 2 wherein the compensation film is disposed between the vertically aligned liquid crystal cell and one of the polarizers.
11. A component according to claim 9 wherein there is a compensation disposed on each side of the liquid crystal cell between the cell and each of the polarizers.
12. A component according to claim 9 comprising two compensation films disposed between the said vertically aligned liquid crystal cell and one of said polarizers.
13. A component according to claim 1 wherein the tilt in the optic axis of the compensation film is uniform.
14. A component according to claim 1 wherein the tilt in the optic axis of the compensation film varies.
15. The component according to claim 1, wherein the vertically aligned liquid crystal cell is disposed between the polarizer and a reflective plate, and the compensation film is disposed between the vertically aligned cell and the polarizer.
16. The component according to claim 15 wherein the compensation film is disposed on a base film and wherein the tilt in the optic axis thereof is uniform.
17. The component according to claim 15 wherein the compensation film is disposed on a base film and wherein the tilt in the optic axis thereof varies.

18. The component according to claim 15 wherein there are two positive birefringent material layers disposed on a base film and wherein the tilt in the optic axis in at least one of the said layers thereof is uniform.

19. The component according to claim 15 wherein there are two positive birefringent material layers disposed on a base film and wherein the tilt in the optic axis in at least one of the said layers thereof varies.

20. An electronic imaging device containing the component of claim 1.

21. A method of forming a component of claim 1 wherein the orientation of the compensation film is accomplished using photo-alignment.

22. A method of forming a component of claim 1 wherein the orientation of the compensation film is accomplished using mechanical rubbing.

23. A method of forming a component of claim 1 wherein the orientation of the compensation film is accomplished using shear forces.

24. A method of forming a component of claim 1 wherein the orientation of the compensation film is accomplished using electric or magnetic field effects.